

CONTRACT CHANGE ORDER MEMORANDUM

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TO: Tony Anziano, Program Manager /			FILE: E.A. 04 - 0120F4	
FROM: Darryl Schram, Senior TE			CO-RTE-PM SF-80-13.2/13.9	
FED. NO.				
CCO#: 279	SUPPLEMENT#: 0	Category Code: BZZZ	CONTINGENCY BALANCE (incl. this change) \$99,928,521.27	
COST: \$2,194,317.00		INCREASE <input checked="" type="checkbox"/> DECREASE <input type="checkbox"/>	HEADQUARTERS APPROVAL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
SUPPLEMENTAL FUNDS PROVIDED: \$0.00		IS THIS REQUEST IN ACCORDANCE WITH ENVIRONMENTAL DOCUMENTS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
CCO DESCRIPTION: Cable Painting Risk Mitigation			PROJECT DESCRIPTION: CONSTRUCT SELF-ANCHORED SUSPENSION BRIDGE	
Original Contract Time: 2490 Day(s)	Time Adj. This Change: 0 Day(s)	Previously Approved CCO Time Adjustments: 501 Day(s)	Percentage Time Adjusted: (including this change) 20 %	Total # of Unreconciled Deferred Time CCO(s): (including this change) 3

THIS CHANGE ORDER PROVIDES FOR:

Provide complete environmental containment systems for the cleaning and painting of the Main Cable spans concurrently and procuring and implementing additional painting equipment and personnel required to clean and paint both North and South Suspender Ropes concurrently.

At the December 2012 TBPOC meeting, the TBPOC directed the Department to mitigate schedule risks to the ready for Seismic Safety Opening (SSO) milestone by pursuing and executing a change order to provide additional resources to the cable painting operations. This CCO will provide for additional supervision and quality control personnel, additional labor (premium time and inefficiencies but not the base labor cost), and additional equipment to expedite the painting of the main cable and suspender ropes. The TBPOC recognized that this was an issue distinct from the currently incentivized acceleration efforts established in CCO 160 due to the fact that change orders subsequent to the CCO 160 agreement may impact the Contractor's ability to meet the SSO milestone. The Department performed a schedule risk analysis and recognized that the amount of additional CCO work since the execution of CCO 160 has diluted the Contractor's management, engineering, and scheduling resources affecting their ability to efficiently plan and execute the work. At the time of the CCO 160 agreement 82 separate CCO's were identified as needing to be executed. However since that time the project has experienced a substantial number of additional changes.

To date the Department has been able to mitigate most schedule issues. However, taking into account the latest approved schedule (October 2012) along with the December 6th 2012 weekly schedule look ahead the Department has identified two critical paths extending construction operations past the SSO date. The first path (messenger cable installation thru cable electrical thru main cable painting) results in a 29 day delay to SSO. The second path (clean and paint South upper suspenders thru clean and paint North upper suspenders) results in a 7 day delay to SSO. These delays can be attributed to the cable system changes compounded by the mechanical/electrical (MEP) changes affecting these schedule paths. If these delays were to remain un-mitigated then costs for these delays are estimated to be on the order of \$10M depending on criticality. In implementing this change order the TBPOC hopes to obtain an early completion date for the painting operations so that the schedule risk of change orders may be mitigated to the extent possible. This change provides a probability for schedule mitigation that would otherwise be lost if no action were taken. This change, while not guaranteeing recovery, is not unprecedented – Contract Change Order 108S2 was executed with a similar understanding.

The Risk Register has captured the risks associated with cable change orders. Risk Item 1.2 "Schedule Delays to Seismic Safety Opening" captures the risk to schedule, Risk Item 97 "Painting: Cable Issues in Field" captures the risks associated with cable painting operations, and Risk Item 127 "MEP – Cable" captures the risks associated with the cable MEP work.

The work is not covered by any contract items. The total cost of this change order is \$2,194,317.00 lump sum, which can be financed from the contingency fund. A detailed cost estimate is on file.

No time adjustment is warranted as this change order does not affect the controlling operation. Changes in the CPM schedule as a result of this change will be added in a subsequent update as contemplated in CCO #171.

This change order has concurrence from William Casey (Supervising TE), Tony Anziano (Program Manager), Ken Terpstra (Project Manager), and Rich Foley (HQ Oversight).

This change order is pending approval from the Toll Bridge Program Oversight Committee (TBPOC) which is expected on


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January 7, 2013, for the value listed above.

CONCURRED BY:			ESTIMATE OF COST		
Construction Engineer:	William Casey, Sup TE	Date 12/24/12	ITEMS	THIS REQUEST	TOTAL TO DATE
Bridge Engineer:		Date	FORCE ACCOUNT	\$0.00	\$0.00
Project Engineer:		Date	AGREED PRICE	\$0.00	\$0.00
Project Manager:	Proj Manager, Ken Terpstra	Date 1/2/13	ADJUSTMENT	\$2,194,317.00	\$2,194,317.00
FHWA Rep.:		Date	TOTAL	\$2,194,317.00	\$2,194,317.00
Environmental:		Date	FEDERAL PARTICIPATION		
Other (specify):	HQ, Rich Foley	Date 1/2/13	<input type="checkbox"/> PARTICIPATING <input type="checkbox"/> PARTICIPATING IN PART <input checked="" type="checkbox"/> NONE <input type="checkbox"/> NON-PARTICIPATING (MAINTENANCE) <input type="checkbox"/> NON-PARTICIPATING		
Other (specify):	TB Program Manager, Tony Anzian	Date 12/13/12	FEDERAL SEGREGATION (if more than one Funding Source or P.I.P. type) <input type="checkbox"/> CCO FUNDED PER CONTRACT <input type="checkbox"/> CCO FUNDED AS FOLLOWS		
District Prior Approval By:		Date	FEDERAL FUNDING SOURCE PERCENT _____ _____ _____		
HQ (Issue Approve) By:		Date			
Resident Engineer's Signature:	 1-2-13				